

# Summary

Nakonechnyy Andriy. The topic of the diploma: «Investigation of power characteristics clamping mechanism with geometric locking for turning semiauto-matic horizontal 6-spindel of development over the main motion machine», pages 165, formulas 91, tables 35, figures 35, applications 2, used literature sources 25.

The goal of work: Master the skills development, design and researtion of machines and machine systems, design processes processing machine parts, construction machine tools, construction elements of equipment, use of computers for research and computer-aided design and solution of technical and design issues and make organizational and economically sound engineering solutions.

The object of study is the regularities of structural factors and kinematic character on Power and Energy (performance) characteristics of the drive clamp at high speeds of the spindle.

In diploma information and patent research are performed; optimization of shaping schemes of project machine and optimization of configuration schemes are performed; technological calculations are realized and manufacturing process is developed. Component parts of machine tool are designed.. Research clamping mechanism for turning semiautomatic. Done computerized calculations. The economic calculation decisions. The issues of safety and security in emergency situations and to protect the environment.

Keywords: CLAMPING MECHANISM WORKHOLDING PATRON ,CLUTCHES CLIPS,GEAR – ENHANCING MECHANISMS.